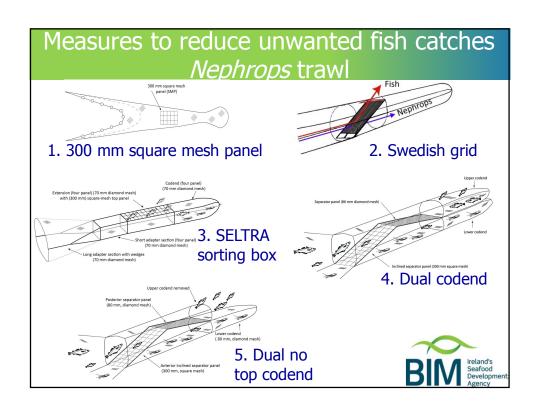


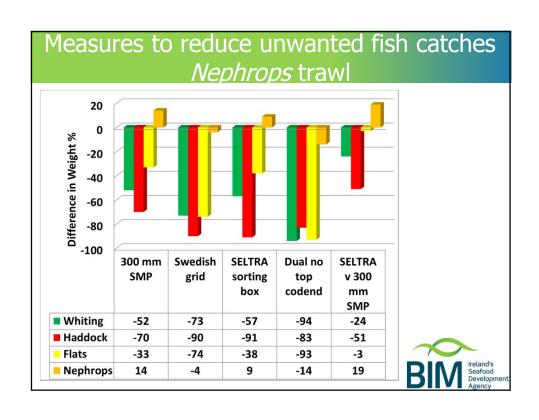
Measures to Improve Nephrops selectivity

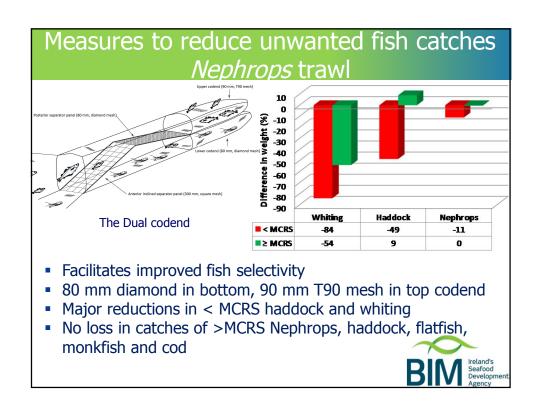
	80 mm mesh	Sorting grid	Square mesh
Nephrops retention ≥ MCRS	0	0	+
Nephrops retention < MCRS	++	++	+
Fish selectivity	+	0	-
Catch quality & sorting	0	0	0
Practicality	++	-	++
Gear cost	++	+	+
Legal status	++	++	

Key: ++ Very Good, + Good, 0 Neutral, - Poor, Very Poor NA Not applicable









Measures to reduce unwanted fish catches *Nephrops* trawl

				Dual no		
	300 mm	Swedish		top	Dual	
	SMP	grid	SELTRA	codend	codend	
Fish exclusion	+	++	++	++	NA	
Fish selectivity	NA	NA	NA	NA	++	
Catch quality & sorting	+	+	+	+	++	
Nephrops retention	+	0	++	-	0	
Practicality	++	-	++	+	+	
Gear outlay	++	+	+	0	0	
Legal status	++	++	++	++	+	

Key: ++ Very Good, + Good, 0 Neutral, - Poor, Very Poor, NA Not applicable



Conclusions to date

- Increase in codend mesh size is the best option for Nephrops selectivity
- SELTRA is most promising measure in the short term for vessels primarily targeting *Nephrops*
- Dual codend a good option for vessels targeting Nephrops and fish
- Swedish grid or Dual less top codend can be used to exclude fish when required



Nephrops survivability

North Sea discard plan EU 2016/2250 Article 4

Survivability exemptions for Norway lobster

- 1. The exemption from the landing obligation pursuant to Article 15(4)(b) of Regulation (EU) No 1380/2013, for species for which scientific evidence demonstrates high survival rates, shall apply to the following catches of Norway lobster:
- (a) catches with pots (FPO (1));
- (b) fatches in ICES Division IIIa with bottom trawls (OTB, TBN) with a mesh size of at least 70 mm equipped with a species selective grid with bar spacing of maximum 35 mm;
- (c) catches in ICES Division IIIa with bottom trawls (OTB, TBN) with a mesh size of at least 90 mm equipped with a seltra panel;
- (d) in 2017, eatches in ICES Division IV with bottom trawls (OTB, TBN) with a mesh size of at least 80 mm equipped with a netgrid selectivity device.
- 2. Norway lobster caught in cases referred to in paragraph 1 shall be released whole, immediately and in the area where it has been caught.
- 3. Before 1 May 2017, Member States having a direct management interest in the North Sea shall submit to the Commission additional data to those provided for in the Joint Recommendation of 3 June 2016 and any other relevant scientific information supporting the exemption laid down in paragraph 1, point d. The Scientific, Technical and Economic Committee for Fisheries (STECF) shall assess those data and that information before 1 September 2017.



Nephrops survivability

- A further means of reducing unwanted catches
- Major scope for similar exemption in Area VII
- Irish study (possibly with the SELTRA) planned

